

## VALVE ASSEMBLY OF A RECIPROCAL COMPRESSOR

### ABSTRACT OF THE DISCLOSURE

5 A valve assembly of a close-type reciprocal  
compressor. The valve assembly includes a valve plate  
disposed between a cylinder body and a cylinder head,  
a reed valve for opening and sealing a refrigerant  
10 discharge hole formed at the valve plate, a first  
stopper for resisting against a bending force of the  
reed valve bent when the refrigerant is discharged,  
a second stopper for resisting against a bending  
force of the first stopper by the reed valve, a  
15 keeper for limiting bending degree of the second  
stopper by the first stopper, and a bolt engaged with  
the keeper for connecting with the stopper bent by  
the reed valve. When refrigerant discharge pressure  
is increased, the resisting force against the bending  
20 force is added by the first stopper and the second  
stopper in turn, and thus compressing efficiency is  
increased by changing opening degree of the reed  
valve corresponding to the change of the pressure,  
and at the same time, noise can be reduced by  
25 lessening shock added to the reed valve. Moreover,  
when there is an abnormal increase of the refrigerant  
discharge pressure, the deformation degree of the  
second stopper limited by the keeper can be  
controlled by using the bolt.

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